BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT NAGENAHALLI JANATHA COLONY IN WA NO.02 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 50.00 Lakhs

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
1	KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3) KPWD S.R 2016-17								
	Nagenahalli	Cum							
	Cross Road		2	150.00	1.00	0.95	285.00		
					Total Qty		**285.00**	200.34	**57096.90**
	Basic Rate	189.00							
	Area Weightage @ 6%	11.34							
	Total	**200.34**							
2	KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for **levelling and lowering** the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
	Nagenahalli	Cum							
	Cross Road		1	150.00	4.50	0.45	303.75		
	Near Shaneshwara Temple		1	120.00	5.00	0.45	270.00		
					Total Qty		**573.75**	166.42	**95483.00**
	Basic Rate	157.00							
	Area Weightage @ 6%	9.42							
	Total	**166.42**							
3	KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
		Cum							
						Qty Vide Item No.1+2	**858.75**	100.00	**85875.00**
	Average Weight of Earth 1.28 Tonne/Km								
	Basic Rate Lead Charges for 10.00 Kms (2.50X1.28X10.00)	32.00							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Add loading and unloading Item No 17.1)	68.00							
	Total	100.00							
4	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								
	Nagenahalli	Cum							
	Cross Road		1	150.00	4.50	0.20	135.00		
	Near Shaneshwara Temple		1	120.00	5.00	0.20	120.00		
					Total Qty		**255.00**	1665.26	**424641.00**
	Basic Rate	1571.00							
	Area Weightage @ 6%	94.26							
	Total	**1665.26**							
5	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	Nagenahalli	Cum							
	Cross Road		1	150.00	4.50	0.15	101.25		
	Near Shaneshwara Temple		1	120.00	5.00	0.15	90.00		
	for Drain		2	150.00	1.00	0.15	45.00		
					Total Qty		**236.25**	4976.70	**1175745.38**
	Basic Rate	4695.00							
	Area Weightage @ 6%	281.70							
	Total	**4976.70**							
6	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300kgs. with 20mm and down size granite metal coarse aggregates at 0.69cum and fine aggregates at 0.43cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No.1500, 1700, 2200. -do- Wall and bottom thickness 15cm (P.No.265 / It.No.37.59.2)								
	Cross Road	Cum							
	bed		2	150.00	1.00	0.15	45.00		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amou
	side wall		4	150.00	0.15	0.60	54.00		
						Total Qty	**99.00**	11032.48	**109221**
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Total	**11032.48**							
7	KSRB 4.9.2:Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It.No.4.46.2 (rates effects from 01-07-2017)								
		tonne							
		60% of Qty Vide item No.11				in Qtl	59.400		
						in tonne	**5.940**	64243.42	**381605.**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
8	Providing and fixing **RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20** mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Nagenahalli	Sqm							
	Cross Road		2	150.00	0.90		270.00		
						Total Qty	**270.00**	2100.00	**567000.0**
	Data Rate	**2100.00**							
9	KSRRB M600-6. Cement concrete pavement. Construction Un- reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and size graded granite metal , coarse and fine aggregate with superplastisiser @ 3lts conforming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grades as per drawing complete as per specifications.(P.No.174 / It.No.22.6.2)								
	Nagenahalli	Cum							

SL No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Cross Road		1	150.00	4.50	0.125	84.38		
	Near Shaneshwara Temple		1	120.00	5.00	0.125	75.00		
						Total Qty	159.38	6217.96	990987.3
	Basic Rate	5866.00							
	Area Weightage @ 6%	351.96							
	Total	6217.96							
10	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift (P.177/ I.22.7)								
	Nagenahalli	Sqm							
	Cross Road		1	150.00	4.50		675.00		
	Near Shaneshwara Temple		1	120.00	5.00		600.00		
							1275.00	100.70	128392.5
	Basic Rate	95.00							
	Area Weightage @ 6%	5.70							
	Total	100.70							
11	Miscellaneous and unforeseen charges	LS							957.00
							Grand Total Amount		5000000.0

(Rupees Fifty Lakhs Only)

CERTIFICATE

1) The site has been inspected and the work is found to be necessary.
2) The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
3) The provisions were made in this estimate are necessary and adequate.
4) The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.
5) This work is not repeated in any other programs or Grants

Assistant Engineer
Ward No.02
Chowdeshwari Ward

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

50.80 lacs
Executive Engineer
Yelahanka Division
B.B.M.P

ADMINISTRATIVELY SANCTIONED FOR Rs
Rupees fifty lacks only
Under P-1878
Registered as EE ( )
Subject to conditions contained in
enclosed memo EE ( ) No
Dt Estimate A/C sanctioned
J.C(Y)P&A/AE/70/17-18,
dated 16-2-2018 Rs 50.80 lacks.

Joint Commissioner
(Yelahanka Zone)

Technical Sanction
Accorded for Rs Fifty lacks only
Head of A/c P1878
CER NO YS/ /AE/18 Dt.

TA CE (YNK)

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT NAGENAHALLI JANATHA COLONY IN WARD NO.02 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE

Assistant Engineer
Ward No.02
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

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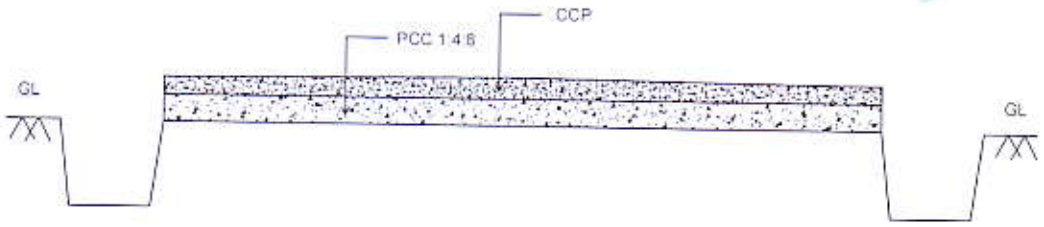

TYPICAL CROSS SECTION OF CC ROAD

AE-02

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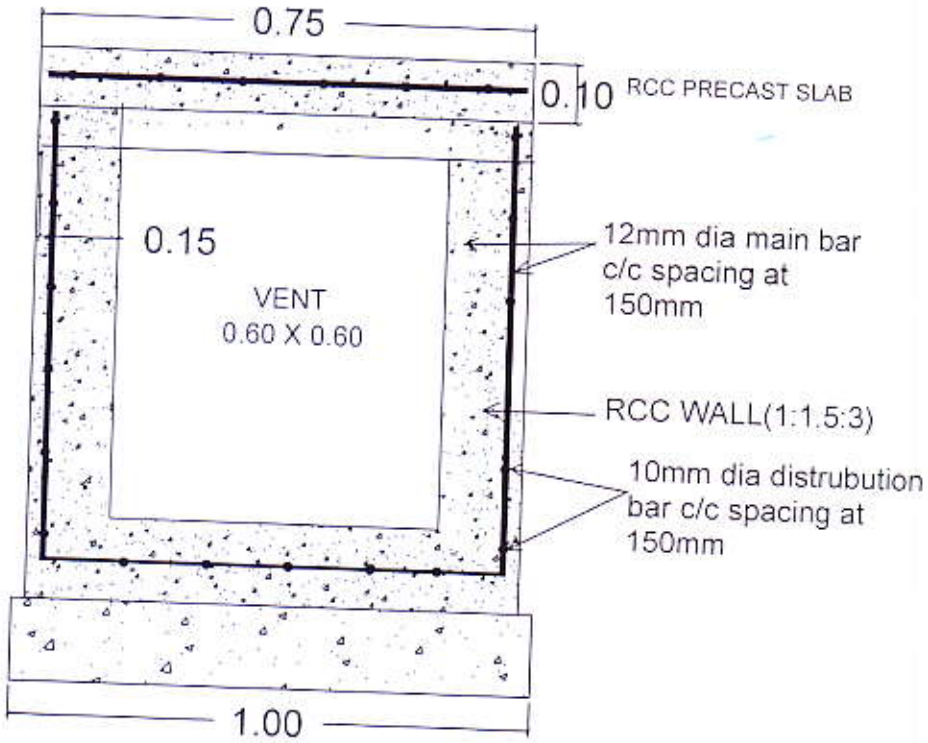

TYPICAL CROSS SECTION OF RCC DRAIN

AE-02